KOLOS, Ya. G. Cand Tech Sci -- (diss) "Study of the heat characteristics of parabolic cylindrical solar installations varying temperatures and water pressures in boilers." Mos, 1957. 14 pp with graphs (Acad Sci USSR. Power Engineering Inst im G. M. Krzhizhanovskiy), 130 copies (KL, 11-58, 117)

-67-

KCLUS, VA.G.

KOZLOV, B.K.; BOQDANOV, P.F.; KOLOS, Ya.G.; MARKOV, G.I.

Thermotechnical investigation of a parabolic solar collector for producing steam. Ispol'.soln.energ. no.1:110-117 '57. (MIRA 10:11)

(Solar energy)

. KOLOS, 4A, G,

AUTHOR:

Kolos, Ya.G. (Engineer)

96-3-18/26

TITLE:

An investigation of the thermal characteristics of cylindricalparabolic solar installations with various temperatures and pressures of water in the boiler. (Issledovaniye teplovykh kharakteristik parabolotsilindricheskikh solnechnykh ustanovok pri razlichnykh temperaturakh i davleniyakh vody v kotle.)

PERIODICAL:

Teploenergetika, 1958, No.3. pp. 73-78 (USSR)

ABSTRACT:

Sun power installations are of special interest in the central Asian parts of the USSR. The simplest and most promising solar thermal devices are cylindrical-parabolic installations. When the installation is heating up slowly (and in the tests the mean rate of temperature rise of the heat transfer medium was 30°C per hour) it may be assumed with sufficient accuracy that conditions are stable over short intervals of time. An expression is then given for the mean efficiency of the installation in these time intervals. While the installation is heating up the energy absorbed by the boiler goes to increase the enthalpy of the heat transfer medium of the actual equipment and its insulation and to cover thermal losses. In the steady state energy is not used to increase the enthalpy of the structure and insulation and the efficiency is, therefore, higher. An analytical solution of the problem is given with a reference to a tube irradiated through special slots in the thermal

Card 1/3

96-3-18/26

An investigation of the thermal characteristics of cylindrical-parabolic solar installations with various temperatures and pressures of water in the boiler.

insulation by heat reflected from a cylindrical parabolic mirror as shown in Fig.1. Expressions are given for the energy and heat balance equations, and finally, expressions are derived that serve as the main formulae in the design of cylindrical-parabolic solar installations. The experimental part of the work is then described. The experimental installation, illustrated in Fig.1. consists of a reflector, receiver, and a set of measuring instruments. The reflector was a cylindrical-parabolic surface of mirror aluminium with a reflection factor of 0.72. The projected area of the mirror normal to the sun's rays was 0.83 sq.m. The receiver consisted of a drum in the form of a steel tube 76/83 mm diameter and 940 mm long with a total capacity of 4.4 litres. The tests were made with a mean integral radiation of about 700 kcal/m2hour. Five series of tests were made, the conditions of which are given in Table.1. Curves of change of pressure, enthalpy of heat transfer medium, wind speed, and efficiency as functions of time and of temperature difference between the heat transfer medium and the ambient for the first series of experiments are given in Figs. 2 & 3. Figs. 4 & 5 give graphs of change of enthalpy and efficiency for the whole series of experiments. Fig.6. gives a graph of the relationship between the final conditions of the heat transfer medium and the

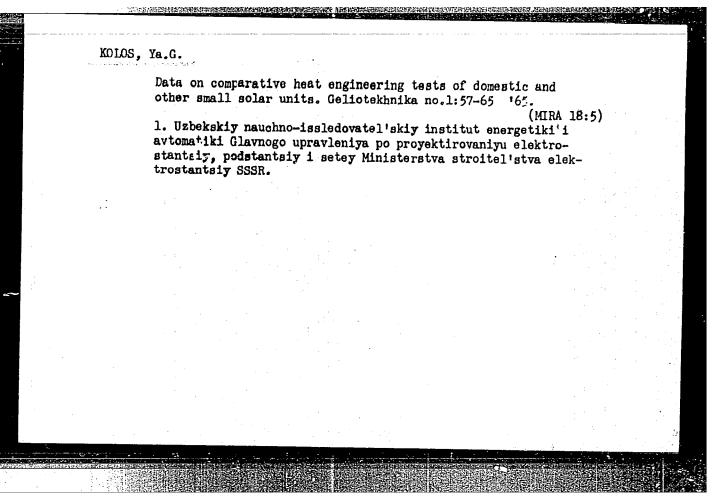
Card 2/3

An investigation of the thermal characteristics of cylindrical-parabolic solar installations with various temperatures and pressures of water in the boiler.

concentration of energy on the heating surface of the receiver. Fig.7. gives theoretical and experimental graphs of the increase of enthalpy with time and agreement is satisfactory. The graphs in Fig. 4. show that the relationships of change of enthalpy and efficiency are the same for all tests and a formula is given for the efficiency. A number of practical matters are then considered. It is recommended to make the installation sloping although this does increase the heat losses somewhat. It is also recommended not to use a glass front because although it raises the efficiency somewhat, it would probably get dirty and broken. The importance of good thermal insulation is made clear. It is also important that the reflector should be accurately made. The use of a method based on the study of transient thermal conditions of the installation made it possible to obtain quickly a good deal of experimental data. It is concluded that it is quite practical to achieve a mean co-efficient of energy concentration on the heating surface of a cylindrical-parabolic installation of 25-30. With this concentration the heat transfer medium can be heated to a temperature of 380°C. There are 7 figures, 5 literature references (4 Russian, 1 English).

Card 3/3

ASSOCIATION: Power Institute of the Acad. Sci. USSR. (Energeticheskiy AVAILABLE: Library of Congress. Institut AN SSSR).



AKCHURIN, R.Kh.; APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.; SHATOV, N.I.; SHCHEGOLEV, D.M. [deceased]

Two-mirror solar stand of the Power Engineering Institute.
Geliotekhnika no.5:5-10 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovateliskiy energeticheskiy institut imeni G.M. Krzhizhanovskogo. Submitted December 1, 1965.

APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.

Calcrimetric studies of high-temperature solar engineering units. Geliotekhnika no.6:25-31 '65. (MTRA 19:1)

l. Gosudarstvennyy nauchno-issledowateliskiy energeticheskiy institut imeni Krzhizhanovskogo.

L 30079-66 ACC NR. AP6020630

SOURCE CODE: UR/0377/65/000/005/0005/0010

AUTHOR: Akchurin, R. Kh.; Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I.;

30

Shatov, N. I.; Shchegolev, D. M. (Deceased)

ORG: State Scientific-Research Power Engineering Institute im. G. M. Krzhizhanovskiy (Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy institut)

TITLE: Two-mirror solar stand of the ENIN

SOURCE: Geliotekhnika, no. 5, 1965, 5-10

TOPIC TAGS: photoelectric detection equipment, actinometry

ABSTRACT: A combined two-mirror heliostat-containing solar stand was constructed in 1961-1962 at the testing area of the ENIN. The paper gives a detailed engineering description of the stand as a whole and of its various components (the mirrors, heliostat, reducing gears, photoelectric tracking sensors, vacuum system, and actinometric mechanism). The stand is presently in satisfactory operation. [The specific uses and results are not given.] Orig. art. has: 7 figures. [JPRS]

SUB CODE: 03, 09 / SUBM DATE: 13Jan65 / ORIG REF: 003

Card 1/1

L 36351-66 EWT(1)

ACC NRI AP6017582 APPROVED FOR RELEASE: 09/18/2001 SOURCE CODE:

AUTHOR: Aparisi, F. R.; Kolos, Ya. G.; Teplyakov, D. I.

ORG: State Scientific Research Power Engineering Institute im. G. M. Krzhizhanovskiy (Gosudarstvennyy n.-1. energeticheskiy institut)

TITLE: Calorimetric investigation of high temperature solar installations

SOURCE: Geliotekhnika, no. 6, 1965, 25-31

TOPIC TAGS: solar furnace, calorimetry, solar power plant

ABSTRACT: The authors point out first that calorimetry under natural conditions is one of the best methods of experimentally investigating the radiant heat exchange in solar-power installations with mirror concentrators. The advantages of this method over others are outlined. This is followed by description of several types of calorimeters developed and used at ENIN, with emphasis on a water calorimeter designed for calorimetry of the focal image of a mirror with direct tracking of the sun (Fig. 1). Various modifications of these calorimeters and the differences in their efficiency and productivity are briefly discussed. The effect of the calorimeter diaphragm diameter on the measured radiant flux is estimated. Orig. art. has; 5 figures and 1 formula.

Card

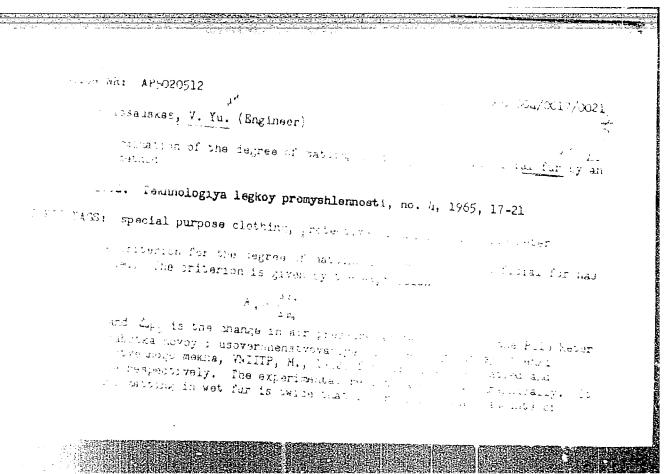
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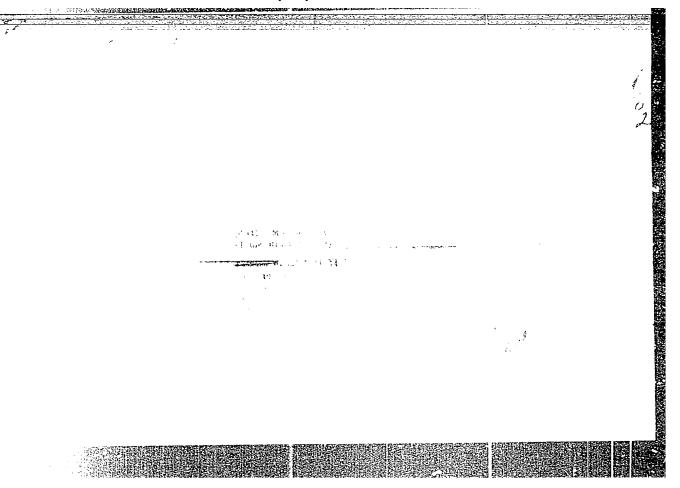
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ACCESSION NR: AP5020512

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154-270

interator Sistemar

Emulate the "beacone," Sov.shakht. 10 no.9:11-12 S '61.

(MIRA 14:8)

1. Predsedatel shakhtkoma shakhtoupravleniya No.26-44 tresta
Bokovantratsit.

(Socialist competition)

(Coal mines and mining)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920015-1

SOURCE CODE: UR/0413/66/000/020/0124/0124 ACC NR. AP6035884 INVENTOR: Badayeva, A. A.; Pervaya, A. S.; Tutov, I. Ye.; Katsnel'son, V. Yu.; Kuz'mintsev, V. N.; Koloskov, M. H.; Kulinich, V. P. ORG: none TITLE: High speed steel. Class 40, No. 187314 [announced by the Central Scientific Research Institute of Technology and Machine Building (Tsuntral nyy nauchno-issledovatel'skiy institut takhnologii i mashinostroyeniya); All-Union Scientific Research Tool Institute (Vsesoyuznyy nauchno-isuledovatel skiy instumental nyy institut)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 124 TOPIC TAGS: high speed steel, chromium tungsten molybdenum eteel, vanadium containing steel, titanium containing steel, DUCTILITY, TOUGHNESS ABSTRACT: This Author Certificate introduces a high-speed steel containing silicon, manganese, chromium, tungsten, molybdenum, vanacium and titanium. To improve the strength, ductility, notch toughness, and oxidation and heat resistance and to reduce carbide heterogeneity, the steel composition is set as follows: 0.75-0.85% carbon, 0.17-0.35% silicon, 0.20-0.40% manganese, 3.5-4.5% chronium, 2.5-3.0% cungsten, 2.5-3.0% molybdenum, 1.9-2.2% vanadium, 0.03-0.08% titanium. SUB CODE: 11/ SUBM DATE: 05Jun65/ UDC: 669.14.018.252.3 Card 1/1

KOLOSENKO, M.N.

USSR/Physics of the Earth - Seismalogy, 0-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36362

Author: Kolosenko, M. N.

Institution: None

Title: Determination of the Azimuth of the Epicenter of a Remote Earthquake Using the Instants at which the Seismic Waves Argive at

Two Stations

Original

Periodical: Tr. Geofiz. in-ta AN SSSR, 1955, No 30, 89-103

Abstract: An analysis of a method for determining the azimuth of the epi-

center of a remote curthquake using the difference in the instants at which identical phases arrive at a pair of stations. The problem is solved for plane and spherical surfaces of the earth. The error in determining the dimuth is estimated and the conditions under which an accuracy of 11% is assured are given. Equations are recommended and a nomegram is given for calculating the azimuth. The method is advantageously used when the stations are all on the

same side relative to the epicenter.

Card 1/1

Card 1/1	Pub. 86-39/39
Authors :	Kolosenko, M. N.
Title t	The earthquake on the Ionian Islands
Periodical :	Priroda 44/1, page 128, Jan 1955
Abstract :	An account is given of the earthquake which occurred on the Ionian Islands in August of 1953. The figures for the duration and other characteristics are stated and the nature of cartiquakes in general is explained. The conclusion is also drawn that there are no notice meteorological alterations.
Institution :	Geophynico Inst, AS USSR
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Submitted:	

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

KOLOSENEO カララ ベ

49-1-12/16

AUTHOR: Kolosenko, M.N.

TITLE: Taking into Consideration the Ellipticity of the Earth in Determining Epicentral Distances (Uchet elliptichnosti

zemli pri opredelenii epitsentral nykh rasstoyaniy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 1, pp.116-120 (USSR)

ABSTRACT: The author investigates the errors involved by using the seismological tables of Jeffreys and Bullen (Ref.1) without taking into consideration the ellipticity of the Earth. In Table 1, pp.117-118, the values are given of the geocentric latitudes and geocentric directional cosines for the seismic stations of the Soviet Union, calculated for the coordinates of the respective stations, using the parameters of the Krasovskiy ellipsoid; the parameters of the Krasovskiy ellipsoid (1940) are compared with those of Hayford (1909) in Table 2. In some regions the deviation of the time of passage of the waves from the standard average hodograph is of a magnitude exceeding the correction for ellipticity and presents a source of information on the local structure of the Earth's crust. For studying these observations, natural earthquakes as well as of artificial explosions are used. It is concluded that in the case of seismological

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

KOLOSHA, I. L.

Sugar Industry - By-Products

Effect of defecation residue on the yield of farm crops, Trudy UNDIBOZ 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, Nay 1953, Uncl.

KOLOSHA, I.L., kand.sel'skokhoz.nauk; PREDKO, I.G.[Predko, I.H.], starshiy nauchnyy sotrudnik

Effectiveness of band application of mineral fertilizers and sugar mill slime to buckwheat in Chernozem regions. Nauch. trudy UASHN 9:86-92 159. (MIRA 14:3)

(Buckwheat—Fertilizers and manures)

KOLOSHA, I.L., kand.sel'skokhozyaystvennykh nauk, dotsent; PREDKO, I.G., starshiy nauchnyy sotrudnik

Effect of cultivation practices on the yield and quality of sugar beets.

Nauch. trudy UASHN 10:63-70 '60.

(Sugar beets)

(Sugar beets)

KOLOSHA, I.J., kand. sel'skokhoz. nauk; KUKSA, M.A., nauchnyy sotrudnik;
GRIGOROVICH, M.O. [Hryhorovych, M.O.], nauchnyy sotrudnik

Effect of mineral fertilizers and soil liming on the yield of corn in dark-grey forest soils. Nauk. pratsi UASHN 17 no.12:
34-39 '60. (MIRA 16:7)

(Corn (Maize)—Fertilizers and mamures)
(Liming of soils)

KOLOSHA, O. I.

KOLOSHA, O. I.: "The effect of fertilizers and lime on the yield and quality of corn on sod-podzolic soils." Ukrainian Order of Labor Red Banner Agricultural Academy. Kiev, 1956 (Dissertation for the Degree of Candidate in Agricultural Sciences)

So: Knizhnava Letopis', No 17, 1956

USSR/Cultivated Plants. Cereals.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77622.

Author : Kolosha, O.I.

Inst

Title : Cultivation of Corn on Turf-Podzolic Soils.

Orig Pub: Vestn. s.-kh. nauki, 1957, No 1, 21-28.

Abstract: At the experimental department of the Kiev Agricultural Institute and at the experimental base of the Ukrainian Scientific-Research Institute of Agriculture, the influence of different fertilizers on the content of raw protein (D), fat, of mineral elements in the grain and of carotene, ascorbic acid, raw protein and minerals in the leaves of corn was determined on turf-podzolic soil. The introduction into the soil of PK

Card : 1/3

33

BOYKO, Ye.; PALIOKHA, I., kand.sel'skokhozyaystvennykh nauk; KOLOSHA, O., kand.sel'skokhozyaystvennykh nauk

Large-scale experiments on collective farms. Nauka i pered. op. v sel'khoz. 8 no.9:48-49 S '58. (MIRA 11:10)

1. Nosovskoye otdeleniye opytnogo khosyaystva Chernigovskoy gosudarstvennoy sel'skokhosyaystvennoy stantsii. 2. Zaveduyushchiy otdelom polevodstva Chernigovskoy gosudarstvennoy sel'skokhozyaystvennoy stantsii (for Boyko).

(Agriculture--Experimentation)

VLASYUK, P.A.; PROTSENKO, D.F.; KOLOSHA, O.I.

Physiological principles of harvesting grain in separate stages. Bot. zhur. 46 no.11:1638-1649 N ¹61. (MIRA 15:2)

1. Ukraniskiy nauchno-issledovatel'skiy institut fiziologii rasteniy, Kiyev.

(Grain--Harvesting)

Effect of calcium carbonate on the growth of corn and the activity of its enzymes. Dokl. AN SSSR 147 no.1:237-239 N '62. (MIRA 15:11) 1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk Ministerstva sel'skogo khozyaystva UkrSSR. Predstavleno akademikom A.J. Kursanovym. (Corn (Maize)) (Liming of soils) (Catalase)	÷	KOLOSHA,	0.1.	
Ministerstva sel'skogo khozgaystva UkrSSR. Predstavleno akademikom A.J. Kursanovym. (Corn (Maize))			activity of its enzymes. Dokl. AN SSSR 147 no.1:237-239	
		•	Ministerstva sel'skogo khoznystva UkrSSR. Predstavleno akademikom A.J. Kursanovym. (Corn (Maize))	

KOLOSHA, O.I.

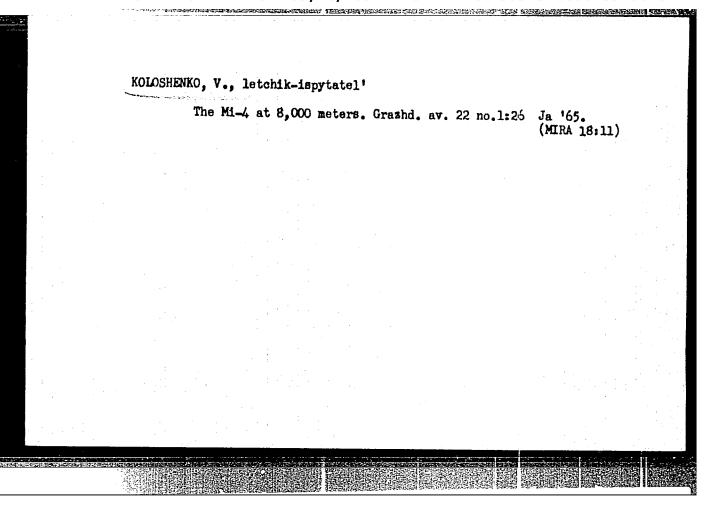
Characteristics of carbohydrate and nitrogen metabolism in frost-resistant varieties of wheat and rye. Fiziol.rast. 12 no.6:1064-1068 N-D '65. (MIRA 18:12)

1. Institut fiziologii rasteniy AN UkrSSR, Kiyev. Submitted September 21, 1964.

The D-490 scraper canal cleaner. Stroi. i dor mash. 7 no.6:
17-19 Je '62, (MIRA 15:7)

(Drainage)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

KOLOSHI

RUMANIA/Organic Chemistry - Synthetic Organic Chemistry.

G.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 53947

Author

Almashi, Sherban, Koloshi, Iliesh

Inst

: Academy RPR

Title

Elemento-Organic Compounds. I. o,o-diethyl Esters of

Arylsulfamidothiophosphoric Acids.

Orig Pub

Studii si cercetari chim. Acad. RFR Fil. Cluj. 1957,

8, No 1-2, 159-168.

Abstract

The reaction of (S) P(OC2H5)2Cl with p-RC6H4SO2NHNa in

polar solvents (pyridine, acetone, dioxane) yielded (S)P(OC2H5)2NHSO2C6H4R (I); (given: R, m. p. in oC,)

Cl, 95; f, 72; Br, 112; I, 135; CN, 117; H, 56; OCH₃,

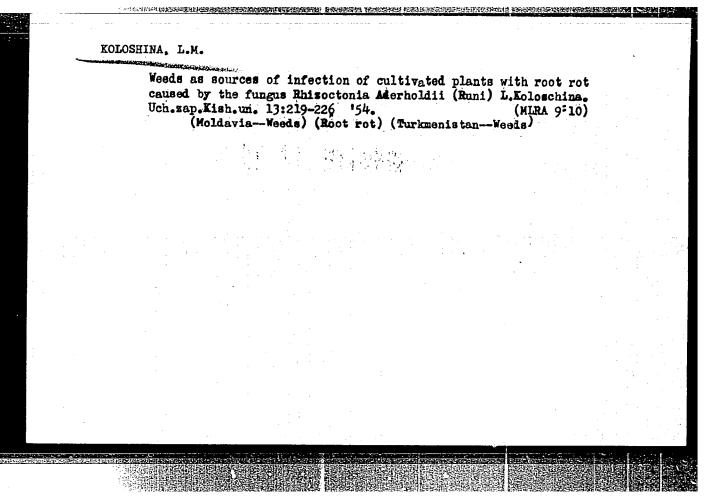
113; сн₃, 84.

Card 1/2

12

- 1. KOLOSHINA. L. M.
- 2. USSR (600)
- 7. "Peronosporic Fungi Which Parasitize the Vegetation of Turkmenistan", Izvestiya Turkm. Filiala Akad. Nauk SSSR (News of the Turkmen Affiliate, Acad Sci USSR), No 1, 1951, pp 39-44.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.



KATATEV, I.A.; KOLOSHINA, L.M.

Rhizoctonia solani Kuhn as a stimulator of the growth of Inglish oak seedlings and the development of mycorrhysn on their roots.

Mikrobiologiia 24 no.6:700-704 N-D 155 (MIRA 9:4)

2. Kishinevskiy gosudarstvennyy universitet.

(QAK) (RHIZOSPHERE MICROBIOLOGY)

Koloshina, L.M

USSR/Plant Diseases. Diseases of Cultivated Plants.

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69548

Author Title

: Koloshina, L.M., Nemchin, F.I.

: The Effect of Agrotechnical Measures and Methods of Storage

on the Development of Potato Rhizoctoniosis in Moldavia.

Orig Pub : Uch. zap. Kishinevsk. un-ta, 1956, 23, 123-132.

Abstract : The study was conducted in Kishinev University on the effect of dates (1st and 12th of April) of planting potatoes, the depth of tuber plantings (12, 16, 20 and 24 cm), vernalization and combinations with bacterial fertilizers as to the development of rhizoctoniosis. The experiments were conducted with Octyabrenok, Yubel and Courier varieties. In addition a study was made on the influence of irrigation on destruction of 16 potato varieties. During the period of winter storage in a storeroom and in trenches for formation of scleroses Rhizoctonia solani Kubn was observed

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

USSR/Plant Diseases. Diseases of Cultivated Plants.

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69548

Abstract : on potato bulbs of the Courier variety. The investigation proved that the disease is developed in spring sowings of potatoes independently of agrotechnical conditions. The interaction of the mold with the host plant had a specific character. The mold would settle on the underground part of the stalk and on the roots; however, the plants developed normally and the crop of tubers was not diminished. The prevalence of sceleroses in the tubers was higher when potatoes were stored in trenches with a covering of soil, than by placing them in storerooms.

Card 2/2

KULUSANIALY G.V

USSR / Cultivated Plants. Experimental Methods.

M-2

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72862.

Author : Kalashnikov, I. G.; Koloshnikov, G. V.; Mitrofanov,

F. I.

Inst : Not given.

Title : On the Economical Effectiveness of Fertilizers in

Experiments and in Production.

Orig Pub: Byul geogr. seti opytov s udobreniyami, 1957, No

1, 67-72.

Abstract: No abstract.

Card 1/1

9

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

KOLOSHNIKOV, Grigoriy Vasil'yevich; MITROFANOV, Filipp Ivanovich; GREBTSOV, F.P., red., COMMINICH, M.M., tekhn.red.

[Experience in introducing crop rotation on collective farms]
Opyt vvedeniia sevooborotov v kolkhozakh. Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1958. 149 p. (MIRA 11:12)
(Rotation of crops)

5/0057/64/034/001/0034/0039

ACCESSION NR: AP4009918

AUTHOR: Koloshnikov, V.G.

TITLE: Spectroscopic measurement of ion temperatures in the "rokamak" machine

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.1, 1964, 34-39

TOPIC TAGS: plasma, plasma temperature, ion temperature, ion temperature measurement, interferometer, Fabry-Perot interferometer, line width measurement, Tokamak, Tokamak device, fusion apparatus

ABSTRACT: A Fabry-Perot interferometer is described with which the widths of faint spectral lines were measured in times of the order of 30 to 50 microseconds. The moving interferometer mirror was carried by a barium titanate cylinder on which silver electrodes had been deposited. A potential of three or four kilovolts on these electrodes would move the mirror by two or three microns. Difficulty was experienced in keeping the mirrors parallel during the motion, and a number of piezoelectric cylinders were tested before a satisfactory one was found. It was also necessary to mount a glass collar between the mirror and the cylinder to prevent distortion of the mirror when the field was applied. The necessary rough monochromatization fol-

Card 1/2

ACC. NR: AP4009918

lowing the interferometer was performed either by a modified prism spectrometer or by an interference light filter. The light that passed through the interferometer and monochromator fell on a photomultiplier tube, the output of which was recorded on an oscillograph. Widths of the deuterium D_B line, the C III line at 4647 A, and the He II line at 4686 A in the spectrum of the "Tokamak" machine were measured with the interferometer. The "Tokamak" was operated at a deuterium pressure of 10⁻³ mm Hg and a discharge current of 15 kA. Helium and carbon were present in small quantities as impurities. The apparatus width was determined by measuring the 5461 A line in a mercury lamp spectrum. The measured line widths were ascribed to Doppler broadening and ion temperatures were calculated from them. During the first half of the five millisecond discharge, the He II and C III temperatures both increased at the same constant rate of about 8 electron volts per millisecond. "The author is grateful to S.L.Mandel'shtam for formulating the problem and discussing the results, to N.A.Yavlinskiy (deceased) for continued interest in the work, and to G.G.Dolgov-Savel'yev for assistance in the work." Orig.art.has: 4 formulas and 5 figures.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: PH

NR REF SOV: 006

OTHER: 005

Card 2/2

AUTHORS:

Vaynshteyn, L. A., Koloshnikov, V. C., Mazing, M. A., Mandel shtam, S. L.,

SOV/48-22-6-20/28

Sobel'man, I. I.

TITLE:

On the Broadening and Displacement of Spectral Lines in a Highly Ionized Plasma (Ob ushirenii i sdvige spektral'nykh liniy v

vysokoionizovannoy plazme)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22,

Nr 6, pp. 718-719 (USSR)

ABSTRACT:

The investigation of the breadth and shape of spectral lines does not characterize the excitation of atoms with sufficient accuracy, and therefore an investigation of the breadth and the displacement of the lines is more advantageous for determining the causes of these phenomena. The principal cause of the broadening and displacement of spectral lines in a highly ionized plasma is its interaction with charged particles. For lines with quadratic Stark effect the impact theory of broadening results in the following expressions for the breadth of lines and their displacement: $\gamma = 11.4C_4^{2/3} \text{ v}^{-1/3} \mathcal{N}$, $\Delta = 9.8C_4^{2/3} \sqrt{1/3} \mathcal{N}$, where C_4 denotes the constant of the quadratic Stark effect,

Card 1/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1" On the Broadening and Displacement of Spectral Lines in a Highly Ionized Plasma SOV/48-22-6-20/28

v - velocity, \mathscr{N} - the density of the excited particles. Herefrom it follows that the ratio between the breadth and the displacement of C_{L} , τ and N is independent and equal to: $\gamma/\Delta = 1.46$. In the case of interaction of a different kind, as e.g. according to the equation by Van der Vaal $\gamma/\Delta = 2.3$. The task to be carried out by the present paper was to find a correct explanation of the interaction between radiating atoms and charged particles, i. e. the applicability of the aforementioned J- formula with respect to the lines with quadratic Stark effect. As objects the lines Ar II, which are excited in the channel of the spark discharge. were selected. Measurements of breadths and displacements of lines were carried out photographically. Results are given by a table. By checking these results it was found that those obtained by experiment contradicted theoretical results completely. This is explained by the fact that the initial expression for the displacement of the frequency of the atom oscillator $\Delta \omega = C_1/R^4$, where R denotes the distance to the exciting electron, is not applicable in this case because the electrons playing the principal part in

Card 2/3

On the Broadening and Displacement of Spectral Lines in a Highly Ionized Plasma SOV/48-22-6-20/28

the broadening of the lines form a Weisskopf radius that is too small. The field formed by the electrons turns out to be so strong on this occasion that the Stark effect ceases to be quadratic and goes over to linearity. There is no reason to believe that the field changes slowly and is quasistatic as is alleged by a well-known theory. The problem is still being discussed. There are 1 table and 3 references, 2 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSA (Physics Institute imeni P. N. Lebedev, AS USSR)

1. Spectroscopy 2. Electron gas--Spectra 3. Perturbation theory

Card 3/3

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	25	Akademiya nauk SESR. Fizioneskiy idituut Issledovaniya po eksperimental'noy i teoreticheskoy fizike; [sbornik] [studies on Eksperimental and Theoretical Physics; Collection of Articles Moscow, Izd-vo Ali SESE, 1959. 304 p. Errata alip taserted. 2,300 copies printed.	helinskiy, Doctor of Physical and Nathematical Sci- of Publishing Hues: A. L. Cherryka and W. O. Berkgaut, Yu. W. Eylins Commission for Publishing the Gollection of Grigoriya Samillovizh Landsberg: I. Ye. Tam Asademician, M. A. Fountovich, Academician; alin, Doctor of Physical and Mathematical Sciences; alin, Boctor of Physical and Mathematical Sciences; tinada, Doctor of Physical and Mathematical Sciences; tinada, Doctor of Physical and Mathematical Sciences; herg-Barphanskys, Candidate of Physical and Mathematical Sciences;	Figure 1 and Mathematical Sciences. Figure 1 this book is intended for physicists and researchers engaged in the study of electroagenetic relations and their role engaged in the study of electroagenetic relations and their role engaged to the foundation of materials.	COUNTAINS: The collection contains 30 articles which review a livestigations in spectroscopy, souther, southern branches of conductor physics, maister physics, and other branches of physics. The sintroductory Chapter gives a biographical profile of 0.5. Landaberg, Professor and Rad of the Dopartment of oft. S. Landaberg, Professor and Rad of the Dopartment of option of the Division of Physical Technology at Moscow University, and reviews his work in Radiogn and combat	gass, pactral mallysis of markets, suc. no. princents and stationed. Markets as accompany each article. Marhulin, P. A. V. I. Malrahev and M. M. Subchinddy. More of G. S. Landaberg in the Pasis of Naicentar Sectionary II Abression C. S. Sandaberg in Markets and Markets of Naicentary of Section Control of Tense. Torselves the Control of the Arc Currents.	Albicanyan, V. E., Kh. Ye. Sigrin, A. L. Liberman, I. M. Kuthet. 1004 M. I. Trun Kina, and B. A. Mannakij. The Possibility of Retablishing the Configuration of Stereoccaric Dishiri- ayclobatane on the East of a Combined Statesting Spectrum. As	Andreyev, H. M. Standing Sound Waves of Large Amplitude 53 BERINIIN, P. A. and A. I. Spinlovazzza. Investigation of the Relation of the Midth of Combined Scattering Lines to Twe-		Viedimirakly, V. V. Nuclear franctions in Nonspherical Suclei 71 Vol. kennikarn, H. V. Optical Properties of Substances in the 80 Vitrous State	Vul. B. N., V. S. Warilov, and A. P. Shotov. The question of 95	Valifson, E. S. New Methods of Increasing the Effectiveness 100 of Redistion Thermococpies	Ginzburg, V. L., and A. P. Jeyanyuk. Scattering of Light Mear Folicie of Phase transition of the Second Type and the	Isakovini, M. A. Frradiation of an Elastic Wall Vibrating Under the Action of Statistically Distributed Forces	Lavin, L. H. The Disseling of Light by a Cloud RANIES H. A. B. L. Pandallahian and V. G. Kolosmikov. The Breadening and Shifting of the Specific Lines of a Car	Malysher, V. I., and V. E. Muzzin, Lewetigation of the Rydro- gal Sond In Substances Whose Malerules Contain Two Mydroxyl Groups	
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-KOLOSHNIKOV, V.G.; MAZING, M.A.; MANDEL'SHTAM, S.L.; MARASANOV, Yu.P.

Using a Fabry and Perot etalon for the study of line widths in pulse discharge spectra. Opt.i spektr. 11 no.4:556-558 0 '61. (MIRA 14:10) (Electric discharges) (Scintillation spectrometry)

13

AP7002568 **BOURCE CODE:** UR/0413/66/000/023/0059/0059 ACC NR INVENTOR: Ragimov, F.Ya.; Lapshin, V.I.; Koloshnikov, V.G. ORG: none TITLE: Instrument for measuring plasma density. Class 21, No. 189100 [announced by Physics Institute im P.N. Lebedev (Fizicheskiy institut)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 59 TOPIC TAGS: plasma density, plasma measurement, light interferometer ABSTRACT An Author Certificate has been issued for an instrument for measuring plasma density. The proposed instrument contains a monochromatic light source, a Fabry and Perot interferometer with one of its mirrors fixed, and a device for recording the light passing through the interferometer. 'To increase accuracy and to extend the range of the device, the plasma container overlaps half of the light flux of the interferometer, and the light-recording device has two photodetectors connected in a differentiating circuit for measuring the light flux which passes through the plasma, as well as the one unperturbed by the plasma. 18Aug65/ ATD PRESS: 5114 SUB CODE: 20, 14/ SUBM DATE: 1/1 Card

Find of a representative of the class Lamptozoa in the fresh waters of Hungaria. Zool. shur. 39 no.11:1735-1737 N '60. (MIRA 14:1)

1. Systematic-Zoological Institute of Szeged University (People's Republic of Hungary) and the Department of Invertebrate Zoology Hoscow State University.

(Tissa River--Polyzoa)

KOLOSKINA, M.Ya., aspirant

Cultivation of lupine in Mordovia; preliminary report.
Uch. zap. Mord. gos. un. no.13:225-232 '60. (MIRA 15:11)

1. Kafedra agronomii i pochvovedeniya Mordovskogo osudarstvennogo universiteta.
(Mordovia—Lapine)

Sharpener for enveloping hacks. Gidroliz. i lesokhim. prom.
17 no.4222 *64 (MURA 1727)

1. Folotskoye lesokhimicheskoya khosyaystva.

	Di	fferent	tiation of	output	norms in	tree t	apping	operation	ns.	Der.i		di
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Cup raising i lesokhim.	and gathering ol prom. 9 no.3:21-	leoresin accord 22 '56.	ing to schedu	ele. Gidroliz. (NIBA 9:8)	
1. Trest Be	lleskhimprom. (Oleoresins)	(Tree tapping)			

KOLOSKO, S.I., BARDYSHEV, I.I.; CHERCHES, Kh.A.; KAMYSHNYY, A.A.; KOLOSKO, S.I.; VOLKOVA, N.Te.

Commercial production of colophony from spruce oleoresin.
Gidrolis. i lesokhim. prom. 11 no.1:22-23 '58. (MIRA 11:2)

l.Institut khimii AN BSSR (for Bardyshev, Cherches) 2.Borisovskiy
lesokhimicheskiy savod (for Kamyshnyy) 3.Upravleniye lesnoy
promyshlennosti Belorusskogo sovnarkhoza (for Kolosko) 4.Dobrushskaya
bumashnaya fabrika (for Volkova).

(Gume and resins)
(Spruce)

Experience in the use of streak marking and outlining. Gidroliz.
i lesokhim.prom. 15 no.2:24-25 *62. (MIRA 18:3)

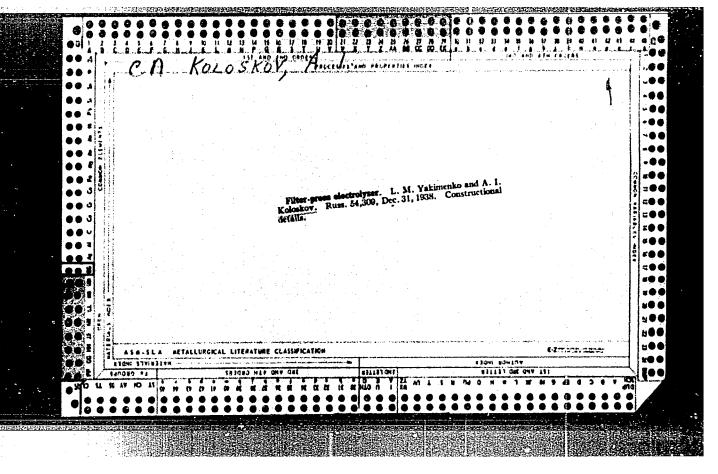
1. Belorusskiy sovet narodnogo khozyaystva.

KOLOSKO, S.I.

Effect of the frequency of collection in the turpentining of pine on the yield and quality of oleoresins. Gidroliz. i lesokhim. prom. 16 no.4:23-24 163. (MIRA 16:7)

1. Belorusakiy sovet narodnogo khozyaystva. (Turpentining)

KOLOSKOV, A.	8	કે		3 . 7	ထ္ .	x	20090
	3948	Koloskor		Gives brief description of Chirchik, one of most recent cities in USER, started 12 years ago on site of hydroelectric power plant and electrochamical combine. Lists principal buildings of city: Chirchik Electrochamical Combine, Central Asia Chamical Machine-Building Flant and Agricultural Machine-Building Plant, several two-storied houses planned by Uzgosproyekt, designed by Enginear Ozerov and LC	Mar 1948	structure. Includes four photographs of Chirchik	8
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KOLOSKOV, A.P. (Zereysk)

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(CHRST--PORSION BODIES)

FLEROV, G.B.; KOLOSKOV, A.V.

Potassium metasomatites in the ultrabasic rocks of the central

range of Kamchatka. Izv. AN SSSR. Ser.Geol. 30 no.4:35-41 Ap

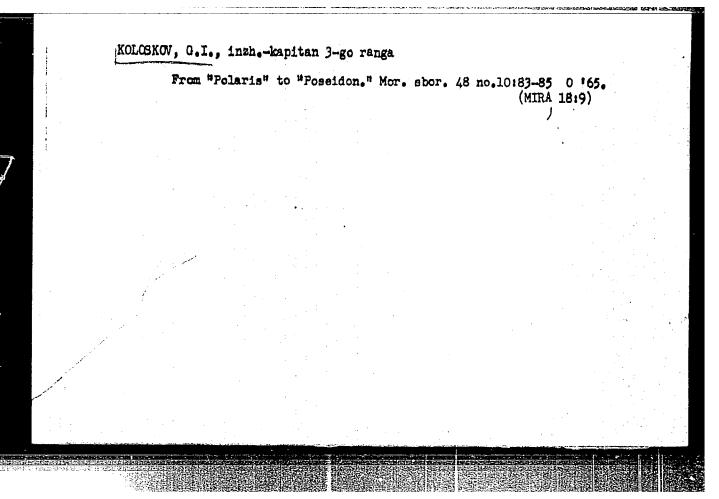
165. (MIRA 18:4)

1. Institut vulkanologii Sibirskogo otdeleniya AN SSSR, Petropavlovsk-Kamchatskiy.

VOLYNETS, O.N.; KOLOSKOV, A.V.; FLEROV, G.B.; FRIKH-KHAR, D.I.; SHILIN, N.L.

Formational delineation of Tertiary plutonic and volcanic-plutonic formations in central Kamchatka. Dokl. AN SSSR 165 no.1:153-155 N 165. (MIRA 18:10)

1. Institut vulkanologii Sibirskogo otdeleniya AN SSSR. Submitted March 10, 1965.



KOLCSKOV, I., kand. istoricheskikh nauk

The militant vanamard of the workers of France. Komm. Vcoruzh. Sil 5 no.21:68-72 N '64. (MIRA 17:12)

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KOLUSKOV, I.N.

KAPIAH, A.A., inzhener; KOLOSKOV, I.H., inzhener; PARIHI, Ye.P., inzhener.

Elanning the establishment of State standards for copper and aluminum terminals of cables and wires. Elek.sta, 25 no.8:46-47 Ag 154.

(NIRA 7:9)

(Electric cables--Standards) (Electric wire--Standards)

KOLOSKOY I.N.

AID P - 1534

Subject : USSR/Electricity

Card 1/1 Pub. 25 - 30/36

Author

: Kaganovich, M. Ya., Eng.

Mitle.

: Comments about the article of A. A. Kaplan,
I. N. Koloskov, and Ye. P. Parini "On the tentative state standard for copper and aluminum terminals",

and about the review of this article by

Eng. A. L. Fayerman (Elek. sta., 1954, No.8)

Periodical: Elek. sta., 3, 59, Mr 1955

Abstract

: The author comments in particular about the terminals of the TM-and LA types. The authors of the article

and its reviewer bypassed the question of the existence of departamental standards for copper

terminals, which standards often differ among themselves.

The author points to the necessity of a uniform

standardization.

Institution:

None Submitted: No date

KOLOSKOV, I.N.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823920015-1"

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 28/35

Author

: Koloskov, I. N., Eng.

Title |

: Grounding of the aluminum shielding of tubular TPRF

type conductors

Periodical: Energetik, 3, 5, 33-35, My 1955

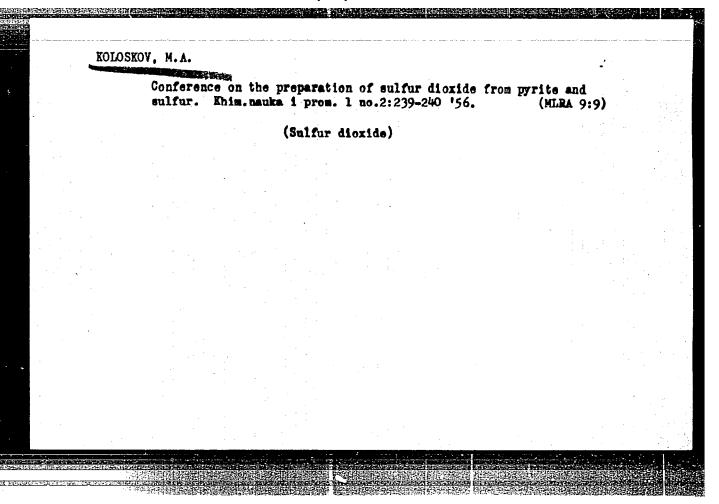
Abstract

: The author describes and illustrates the method of

grounding such conductors. Two drawings.

Institution: None

Submitted: No date

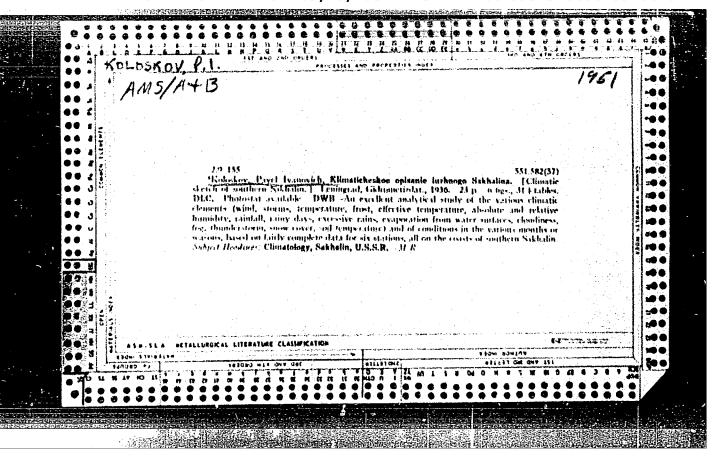


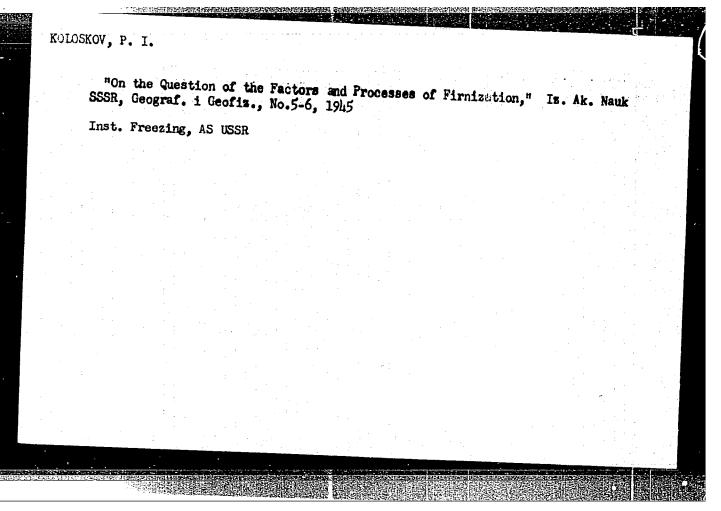
KOLOSKOV, N.I., kand. tekhn. nauk

Conditions for charging electric locomotive batteries. Isv. vys. ucheb. sav.; gor. shur. no.8:103-113 '58. (MIRA 12:5)

1.Donetskiy industrial nyy institut.
(Electric locomotives-Batteries)

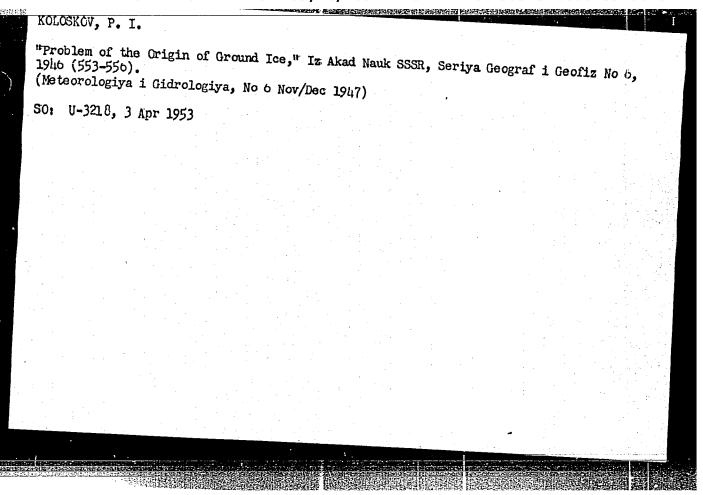
High-quality sumflewer seeds for the cil industry. Muk. elev. prom. 24 no.11:8-9 N '58. (MIRA 11:12) 1. Restovskeye oblastnoye upravleniye khleboproduktov. (Sumflower seed oil)





KOLOSKOW, P. I.

"Soil Climatology," Pochvoved., No.3, 1946

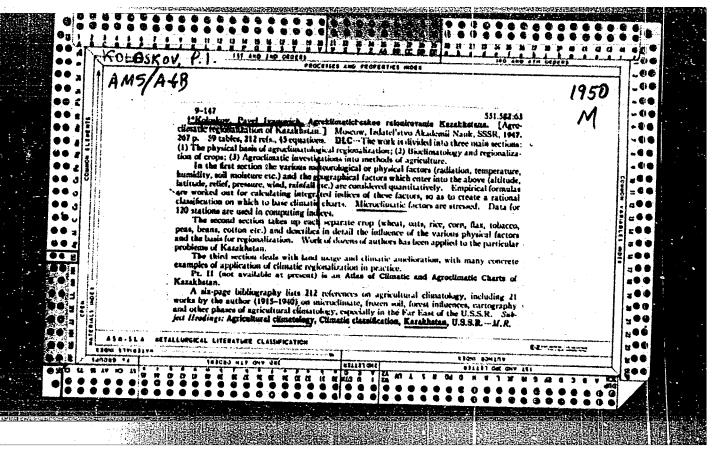


KOLOSKOV, Pavel Ivanovich.

KOLOSKOV, Pavel Ivanovich. Agroklimatologiia kak novaia sovetskiia nauchnaia distsiplina. (akademia Nauk SSSR. Izvestiia. Seriia geograficheskaia i geofizicheskaia". v. 10. Moskva, 1946. no. 2, p. 197-204)

"Literatura": p. 204 (7 entries)

SO: LC, Soviet Goography, Part I, 1951, Uncl.



"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920015-1

FA 14T67

USSR/Permafrost Soil science

BULUSAUY, P. J.

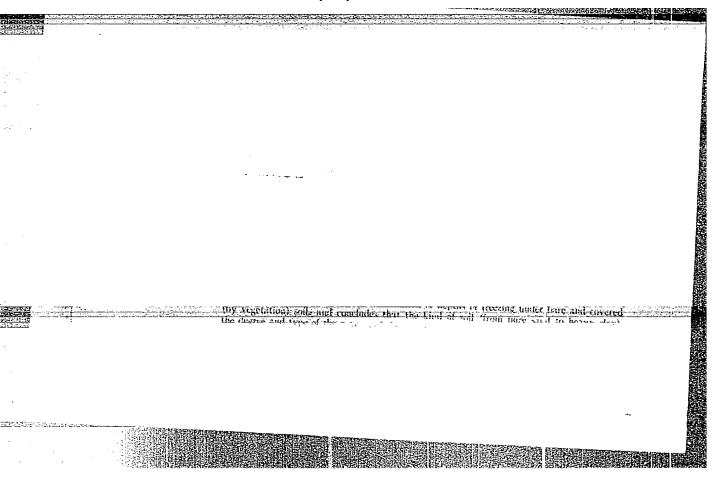
Jan 1947

"Depth of Winter Soil Freezing in European USSR and Kazakhstan," P. I. Koloskov, 8 pp

"Merzlotovedeniye" Vol II, No 1

Deals with depth of winter soil freezing under natural conditions and where snow has been swept away. Mathematical formulae for determining depth of freezing under both conditions and schematic map.

14167



KOLOSKOV, P.I.

Kolosov, P.I.

"Agricultural division of Kazakhatan on the basis of climate." Reviewed by F.F. Davitaya. Met. i gidrol. no.6, 1943.

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

KOLOSKOV, Pl.

Vol. 4 No. 2 Feb. 1953 Climatology and Bioclimatology

Buchinskii, I. E., K voprosu vliianiia vysoty mestnosti na temperaturu i osadki. [The influence of the altitude of a region on temperature and precipitation/ | Meteorologica i Gidrologiia, No. 1:21-25, Sept. 1950. 5 tables, 8 refs. DLC--A study on lapse rates of temperature and precipitation in the Ukraine. For this purpose long period observations of 17 pairs of stations with heights up to 1000 m were used. The average lapse rates of temperature were established, +1.5°C, but variations of this rate in individual years are large (0.38-0.71). Here satisfactory results were obtained by acomparison rates for the stations located on similar form of relief. The lapse rate of temperature is subject to annu ... variations, and in summer is higher (up to 1.0), but lower in winter. For reduction of the annual amount of precipitation to sea level a formula presented by P. I. Koloskov for similar investigations in the Caucasus and Far East was applied. The formula is: $H_0 = \frac{16\mu}{1+\mu}$ ($\frac{1}{2}$) precipitation at sea level, H_{11} , precipitation at heights. of home /- empirical coefficient determined by observations h The increase of precipitation with height in the Ukraine was 25-27% for every 100 m, Subject Headings: 1. Varticul

KANAYEV, A.F.; CHEKOTILIO, A.M.; KOLOSKOV, P.I., doktor geogr. nauk, prof., otv. red.; KUDASHEV, A.I., red. izd-va; SIMKINA, Ye.H., tekhn. red.

[Cold storage installations made f ice and their use] Ledianye sklady i ikh ispol'zovanie. Moskva, Izd-vo Akad. nauk SSSR, 1952. 110 p. (Cold storage)

AVRAAMOVA,A.A.; ALAMPIYEV,P.M.; BADIR'YAN,G.G.; BORODIN,I.A.; VASYUFIN,
V.F.; GURER,A.A.; GURARI,Ye.L.; DANILOV,A.D.; DENEVYANKO,P.A.;
YELSUKOV,M.P.; KOLOSKOV,P.I.; LAPTEV,I.D.; LEONT'YEV,N.F.; PECHNIKOV,A.M.; PROKHOROV,A.I.; HUDENKO,N.A.; CHERDANTSEV,G.N.; YAKIHOV,A.T.

P.V.Pogorel'skii; Obituary. Isv.AN SSSR. Ser.geog. no.3:94-95 My-Je
'55. (Pogorel'skii, P.V., 1899-1955)

KOLOSKOV, P. I. and NAZAROVA, I. V.

"High Winds in Moscow Province." IN Book - Works of the Scientific Research Institute on Aeroclimatology, published by Hydrometeorology Rublishing House, Moscow, 1958.

BAKATIN, Valentin Petrovich; TSYTOVICH, N.A., retsenzent; KOLOSKOV, P.I., prof., retsenzent; VAKHONTOV, A.D., red. izd-va; DOBUZHINSKAYA, L.V., tekhn. red.

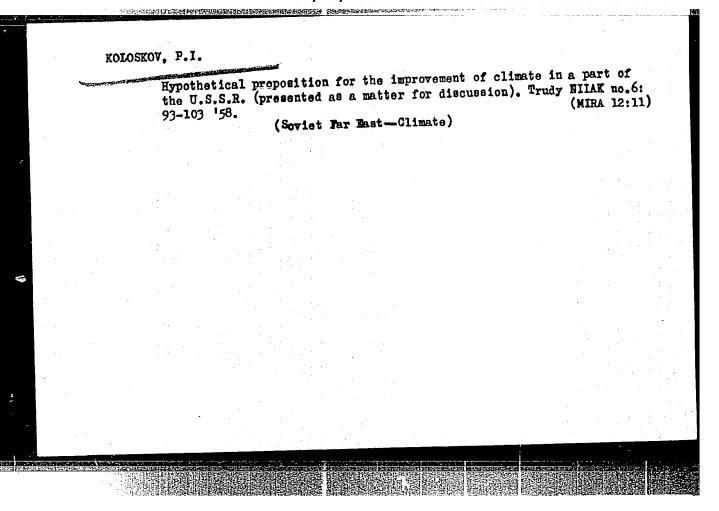
[Fundamentals of mining in permafrost] Osnovy vedeniia gornykh rabot v usloviiakh vechnoi merzloty. Moskva, Gos. nauchno-tekhn. isd-volit-ry po chernoi i tsvetnoi metallurgii, 1958. 231 p. (NIEA 11:8)

1. Chlen-korrespondent Akademii nauk SSSR (for TSytovich).
(Mining engineering) (Frozen ground)

	Wind ve	locity i	n Moscow	Province.	, Trud y 1	NIIAK no.4:46-14	158. (MIRA 11:9)
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	Continuous variability of wind velocity in Leningrad during a period of ten years (1880-1889). Trudy NIIAK 158.	(Petersburg) no.5:5-34 11:12)
	(Leningrad-Winds)	
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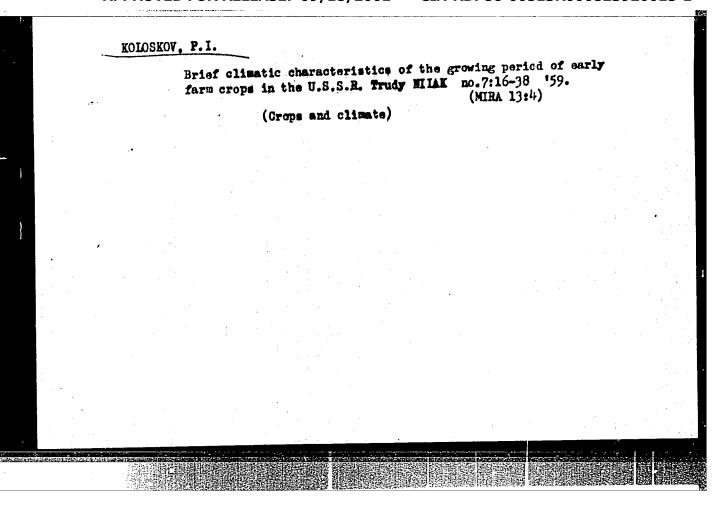
: orangenessandsandsandsands	rision of the U.S.S.R. into a :5-51 *58. and climate)	groclimatic (MIRA 12:11)



7-1/4-8	建工程	COLUMN CONTROL DE CONT	
KOI	oskov,	, P.I.	
1		Establishing climatic regions based on the applicabilities fall plowing. Trudy MIIAK no.7:4-9 '59. (MIRA 13:4)	lity of
		(Plowing) (Soils and climate)	
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KOLOSKOV, P.I.

Principal work methods in dividing the territory of the U.S.S.R. into agroclimatic regions for individual farm crops. Trudy NIIAK no.7:10-15 159. (MIRA 13:4) (Crops and climate)



KOLOSKOV, P.I.

Ridging as a recommendable cultivation method for natural conditions of the "monsoon" climate of the temperature zone.

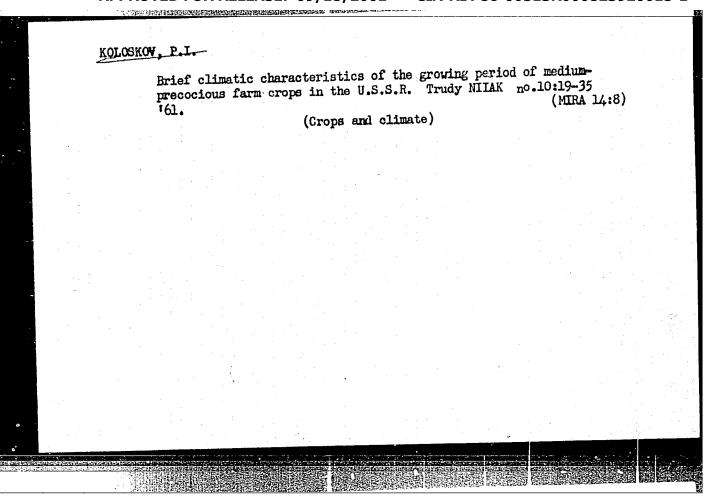
Trudy MIIAK no.7:85-92 159. (MIRA 13:4)

(Soviet Far Rest--Soil moisture) (Plowing)

SHASHKO, Daniil Ivanovich; KOLOSKOV, P.I., prof., doktor geogr. nauk, otv. red.; KAVUN, P.K., red. izd-va; HYLINA, Yu.V., tekhn. red.

[Climatic conditions for farming in central Yakutia; methods for the agricultural evaluation of climate] Klimaticheskie usloviia zemledeliia TSentral'noi IAkutii; s voprosami metodiki sel'sko-khoziaistvennoi otsenki klimata. Moskva, Izd-vo Akad. nauk SSSR, 1961. 261 p. (MIRA 14:9)

Establishi: fallows in	ng climatic region the U.S.S.R. The	rudy NIIAK no.	10:3-18	'61.	Of green (MIRA 14:8)
	(Fallowing)	(Crop zones)			
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S/169/62/000/012/072/095 D228/D307

AUTHOR:

Koloskov, P.I.

TITLE:

Climatic amelioration measures necessary for raising the productivity of agriculture in the USSR (as a matter for discussion)

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1962, 70, abstract 12B459 (Tr. N.-i. in-ta aeroklimatol., no. 15, 1962, 66-78)

TEXT: Two kinds of measures for the improvement of climate are proposed. One is by rationalizing the water-heat regime on the basis of available resources (for the West Siberian chernozem zone and the Far East). The other is by introducing into the local water-heat balance further amounts of heat and moisture without detriment to other areas (warming the USSR's north-eastern regions and moistening arid areas). For the case of dry summers in the chernozem zone of the Union's European territory it is recommended that safety reserves of ground-water should be set up, by building on small rivers

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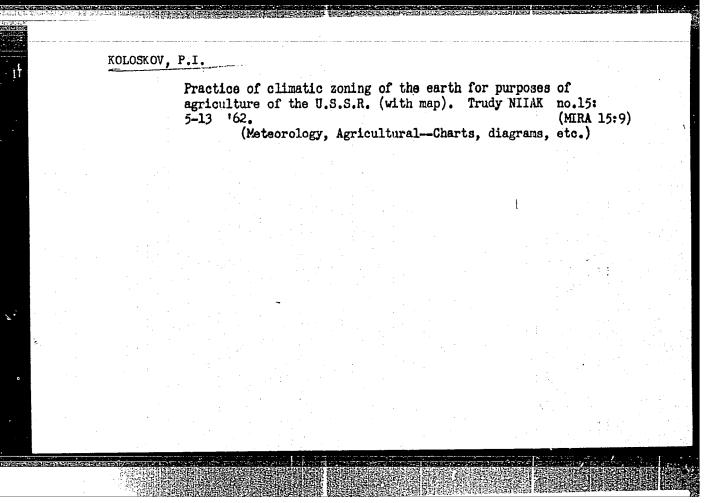
APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-

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Climatic amelioration ...

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the maximum possible number of dams and small hydroelectric power stations, working at the highest drop and discharge of water (similarly to the old country watermills). This measure will increase the river arteries, raise the ground-water level, replenish the ground-water reserves, and restrict the water erosion of soil and ground. All forms of mastering expanses of taiga (forest clearing, burning the organic cover, plowing virgin soil) raise the soil temperature during the growing season and also in winter if the snow cover is more than 20 cm thick, and prevent the soil from becoming too damp. This is a sufficient agroclimatic basis for establishing grain farming in the part of the West Siberian Plain that is in the podsol zone of adequate humidification (with a moisture index of 16 - 32) and has total positive temperatures of 1500 - 2000° and a snow cover more than 50 cm thick at the end of winter. In the southerly arid and dry districts of the Union's European territory, gravitating towards the Black Sea, the Sea of Azov, and the Caspian Sea, the ground must be irrigated at the expense of the rivers flowing into these seas. This will ensure good harvests of agricultural crops and will also introduce much water into the local



Agroclimatic features of the Soviet Far East. Trudy NIIAK (MIRA 15:9) (Soviet Far East—Crops and climate)

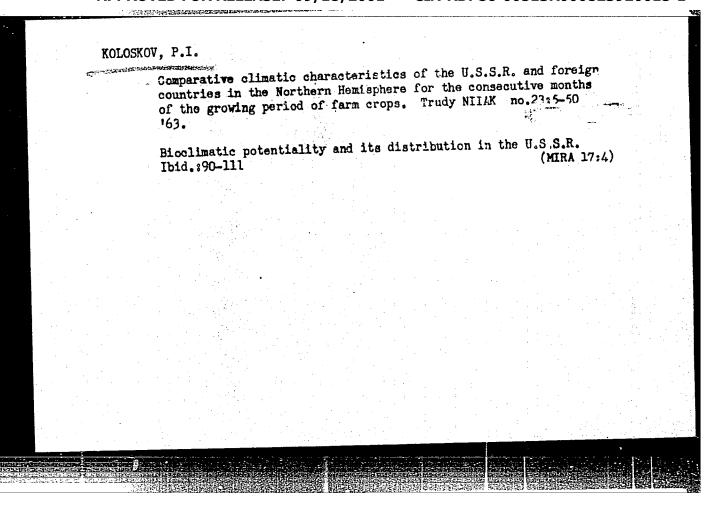
Measures for improving the climatic conditions which are essential in order to increase the agricultural production of the U.S.S.R. Trudy NIIAK no.15:66-78 '62. (MIRA 15:9) (Crops and climate)

SAVINA, Svetlana Stepanovna; KOLOSKOV, P.L., doktor geogr. nauk, otv. red.; LODYCHUK, L.P., red.izd-va; GUS'KOVA, O.M., tekhn. red.

[Hydrometeorological index of drought and its distribution in the European part of the U.S.S.R.] Gidrometeorologicheskii pokazatel' zasukhi i ego raspredelenie na territorii Evropeiskoi chasti SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1963.

(MIRA 16:5)

(Droughts)



KOLOSKOV, S.,

KOMAROV, A., kand.tekhn.nauk; KOLOSKOV, S., kand.tekhn.nauk.

Loading and unloading machine. Muk.elev.prom. 23 no.9:12-14 S '57.

(MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti.

(Loading and unloading)

- 1. KOLOSKOV, S. A.; KOMAROV, A. F.
- 2. USSR (600)
- 4. Water--Softening
- 7. Thermic softening of water with cation pre-softening, Energ. biul., No. 12, 1952.

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	Br	Brigade of communist labor. Sov.shakht. 10 no.9:7-8 S '61. (MIRA 14:8) 1. Sotrudnik neshtatnogo otdela zhurnala "Sovetskiy shakhter"										
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